

# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

Estimate Cost Rs. **5000000.00**

**Name of Work:** Detailed Estimate for the Work of Drilling of Borewells and Providing Pump and Motor at Palanahalli Thota. Vinayakanagara, Nagappa Block, Dwarakangara in Ward No. 05, Byatarayanapura Sub Division.

| SI No                                        | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit           | No | L     | B | D | Qty    | Rate    | Amount    |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|-------|---|---|--------|---------|-----------|
| <b>Drilling and Providing Pump and Motor</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |    |       |   |   |        |         |           |
| 1                                            | Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR) | Each BW        |    |       |   |   |        |         |           |
|                                              | Poojamahalakshmi Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                | 1  |       |   |   | 1      |         |           |
|                                              | Chamundi Layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | 1  |       |   |   | 1      |         |           |
|                                              | Agrahara Layout 12th Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                | 1  |       |   |   | 1      |         |           |
|                                              | Agrahara Layout 2nd Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | 1  |       |   |   | 1      |         |           |
|                                              | Srirampura 1st Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                | 1  |       |   |   | 1      |         |           |
|                                              | Srirampura 4th Cross                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                | 1  |       |   |   | 1      |         |           |
|                                              | Balaji layout, Dwarakanagara (Nagappa Block)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | 1  |       |   |   | 1      |         |           |
|                                              | Noornagara                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                | 1  |       |   |   | 1      |         |           |
|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                | 8  |       |   |   | 8      | 1938.46 | 15508.00  |
|                                              | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1882.00        |    |       |   |   |        |         |           |
|                                              | 3% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 56.46          |    |       |   |   |        |         |           |
|                                              | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>1938.46</b> |    |       |   |   |        |         |           |
| 2                                            | Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR)                                                                                                                                                                                                                                                                                                                                                                             | Rmtr           |    |       |   |   |        |         |           |
|                                              | 0 to 50 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | 8  | 50.00 |   |   | 400.00 | 315.18  | 126072.00 |
|                                              | 50 to 100 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | 8  | 50.00 |   |   | 400.00 | 412.00  | 164800.00 |
|                                              | 100 to 150 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | 8  | 50.00 |   |   | 400.00 | 458.35  | 183340.00 |
|                                              | 150 to 200 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | 8  | 50.00 |   |   | 400.00 | 484.10  | 193640.00 |
|                                              | 200 to 250 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | 8  | 50.00 |   |   | 400.00 | 560.32  | 224128.00 |

| Sl No | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Unit            | No | L     | B | D | Qty    | Rate     | Amount    |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----|-------|---|---|--------|----------|-----------|
| 3     | Supplying of SI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387/1993 and manufactured from hot rolled steel skelp/strips in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR)                                                                                                                                                                                                                                                                                                                                                                          | Rmtr            | 8  | 45.00 |   |   | 360.00 | 1364.75  | 491310.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1325.00         |    |       |   |   |        |          |           |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 39.75           |    |       |   |   |        |          |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>1364.75</b>  |    |       |   |   |        |          |           |
| 4     | Providing and fixing 250mm dia PVC pipe and as per specification and directions. ( BWSSB SR 13-14, P.No.53 I.no.1 of sl.no.11.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rmtr            | 8  | 5.00  |   |   | 40.00  | 1133.00  | 45320.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1100.00         |    |       |   |   |        |          |           |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 33.00           |    |       |   |   |        |          |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>1133.00</b>  |    |       |   |   |        |          |           |
| 5     | 175 mm dia M.S. Casing cap (P.NO-III, I.NO-85, PRED 12-13 SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Each            | 8  |       |   |   | 8      | 103.00   | 824.00    |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100.00          |    |       |   |   |        |          |           |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.00            |    |       |   |   |        |          |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>103.00</b>   |    |       |   |   |        |          |           |
| 6     | M.S. Casing pipe collars 'C' Class (P.NO-III, I.NO-86, PRED 12-13 SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Each            | 8  | 9.00  |   |   | 72     | 154.50   | 11124.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 150.00          |    |       |   |   |        |          |           |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.50            |    |       |   |   |        |          |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>154.50</b>   |    |       |   |   |        |          |           |
| 7     | Supply & delivery at site brand new texmo/innova/ubi/sabar /Atalanta/calamal/waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz,380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard, Non return valve etc. Complete the pump and motor shall from an integral unit with all the required fittings 15.000 HP 25 stage (P.NO-XXXXIII, I.NO-33, PWD SR 13-14) | No              | 8  |       |   |   | 8      | 75541.17 | 604329.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 71265.25        |    |       |   |   |        |          |           |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4275.92         |    |       |   |   |        |          |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>75541.17</b> |    |       |   |   |        |          |           |

| SI No | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unit          | No | L      | B | D | Qty     | Rate     | Amount    |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----|--------|---|---|---------|----------|-----------|
| 8     | Providing, laying & jointing GI pipes conforming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc. complete 'A' grade(excluding cost of fittings)b50mm dia GI pipe (SR 13-14 PWD, P.No.XVII Sl.no. 509)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rmtr          | 8  | 275.00 |   |   | 2200.00 | 340.26   | 748572.00 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |    |        |   |   |         |          |           |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 321.00        |    |        |   |   |         |          |           |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 19.26         |    |        |   |   |         |          |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>340.26</b> |    |        |   |   |         |          |           |
| 9     | Providing & fixing heavy duty collar (P.NO-III, I.NO-86, PRED 12-13 SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               | 8  | 51.00  |   |   | 408.00  | 159.00   | 64872.00  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |    |        |   |   |         |          |           |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 150.00        |    |        |   |   |         |          |           |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9.00          |    |        |   |   |         |          |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>159.00</b> |    |        |   |   |         |          |           |
| 10    | Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia (P.NO-535, I.NO-30 (c), BWSSB 12-13 SR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Mtr           | 8  | 610.00 |   |   | 4880.00 | 164.29   | 801711.00 |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |    |        |   |   |         |          |           |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 159.50        |    |        |   |   |         |          |           |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.79          |    |        |   |   |         |          |           |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>164.29</b> |    |        |   |   |         |          |           |
| 11    | Supplying & delivery at site brand new /Essen/ Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc., completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (MR) | No.           | 8  |        |   |   | 8.00    | 14800.00 | 118400.00 |

| SI No | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Unit           | No | L       | B     | D | Qty       | Rate    | Amount   |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|---------|-------|---|-----------|---------|----------|
| 12    | Fabricating supplying and mounting MS box of 16 SWG suitable for floor / wall mounting, fully weather proof with provision for better hear description, (providing with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primes paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sq cm (P.NO-530, I.NO-39 b, BWSSB SR 13-14) | Sqm            |    |         |       |   |           |         |          |
| A     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | 8  | 1100.00 | 20.00 |   | 176000.00 | 0.34    | 59822.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.33           |    |         |       |   |           |         |          |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.01           |    |         |       |   |           |         |          |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>0.34</b>    |    |         |       |   |           |         |          |
| 13    | Providing & Fixing of clamps set and borewell cap to the pump (MR)                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No's           |    |         |       |   |           |         |          |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | 8  |         |       |   | 8.00      | 690.00  | 5520.00  |
| 14    | Supplying & delivery of brand new best make non return valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark ( 50mm Gate wheel Valve. (PWD SR 13-14, P.NO.XXIV, SI.no, 673)                                                                                                                                                                                                                                                                                                                        | No's           |    |         |       |   |           |         |          |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | 8  | 3.00    |       |   | 24.00     | 1696.00 | 40704.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1600           |    |         |       |   |           |         |          |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 96.00          |    |         |       |   |           |         |          |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>1696.00</b> |    |         |       |   |           |         |          |
| 15    | Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark 50mm Gate Valve for distributor pipeline: 50mm dia (PWD SR 13-14, P.NO.XXIV, SI.no, 659)                                                                                                                                                                                                                                                                                                  | No's           |    |         |       |   |           |         |          |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | 8  | 3.00    |       |   | 24.00     | 1213.70 | 29129.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1145           |    |         |       |   |           |         |          |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 68.70          |    |         |       |   |           |         |          |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>1213.70</b> |    |         |       |   |           |         |          |
| 16    | Providing and fixing of 50mm GI bend to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)                                                                                                                                                                                                                                                                                                                                                                                                                           | No's           |    |         |       |   |           |         |          |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | 8  | 3.00    |       |   | 24.00     | 232.14  | 5571.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 219            |    |         |       |   |           |         |          |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 13.14          |    |         |       |   |           |         |          |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>232.14</b>  |    |         |       |   |           |         |          |
| 17    | Providing and fixing of 50mm GI Nipple to motor (PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)                                                                                                                                                                                                                                                                                                                                                                                                                         | No's           |    |         |       |   |           |         |          |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | 8  | 3.00    |       |   | 24.00     | 110.56  | 2653.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 104.3          |    |         |       |   |           |         |          |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6.26           |    |         |       |   |           |         |          |
|       | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>110.56</b>  |    |         |       |   |           |         |          |
| 18    | Providing and fixing of 50mm GI union to the motor ( PWD SR 13-14, P.NO.XXXVIII GI FITTINGS TABLE)                                                                                                                                                                                                                                                                                                                                                                                                                     | No's           |    |         |       |   |           |         |          |

| SI No | Description of item                                                                                                                                                                                                                                                                                                                        | Unit       | No | L     | B | D | Qty    | Rate   | Amount   |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----|-------|---|---|--------|--------|----------|
|       |                                                                                                                                                                                                                                                                                                                                            |            | 8  | 3.00  |   |   | 24.00  | 237.12 | 5691.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                 | 223.7      |    |       |   |   |        |        |          |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                          | 13.42      |    |       |   |   |        |        |          |
|       | Total                                                                                                                                                                                                                                                                                                                                      | 237.12     |    |       |   |   |        |        |          |
| 19    | Labour Charges for end connection ( MR)                                                                                                                                                                                                                                                                                                    | No's       |    |       |   |   |        |        |          |
|       |                                                                                                                                                                                                                                                                                                                                            |            | 8  |       |   |   | 8.00   | 400.00 | 3200.00  |
| 20    | Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14) | Per length |    |       |   |   |        |        |          |
|       |                                                                                                                                                                                                                                                                                                                                            |            | 8  | 51.00 |   |   | 408.00 | 90.64  | 36981.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                 | 88         |    |       |   |   |        |        |          |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                          | 2.64       |    |       |   |   |        |        |          |
|       | Total                                                                                                                                                                                                                                                                                                                                      | 90.64      |    |       |   |   |        |        |          |
| 21    | Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc., Complete for basement out door type. (MR)                                                                                                                                                           | No's       |    |       |   |   |        |        |          |
|       |                                                                                                                                                                                                                                                                                                                                            |            | 8  | 1.00  |   |   | 8.00   | 475.00 | 3800.00  |
| 22    | Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)                                                                                                              | No's       |    |       |   |   |        |        |          |
|       |                                                                                                                                                                                                                                                                                                                                            |            | 8  | 1.00  |   |   | 8.00   | 906.40 | 7251.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                 | 880        |    |       |   |   |        |        |          |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                          | 26.40      |    |       |   |   |        |        |          |
|       | Total                                                                                                                                                                                                                                                                                                                                      | 906.40     |    |       |   |   |        |        |          |
| 23    | Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable ( confirming to IS 1554) (P.NO - 553, I.NO - 10 (d), BWSSB SR 13-14)                                                                     | Mtr        |    |       |   |   |        |        |          |
|       |                                                                                                                                                                                                                                                                                                                                            |            | 8  | 25.00 |   |   | 200.00 | 169.95 | 33990.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                 | 165        |    |       |   |   |        |        |          |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                          | 4.95       |    |       |   |   |        |        |          |
|       | Total                                                                                                                                                                                                                                                                                                                                      | 169.95     |    |       |   |   |        |        |          |
| 24    | Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc., Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14)                                                                                                                                         | Mtr        |    |       |   |   |        |        |          |
|       |                                                                                                                                                                                                                                                                                                                                            |            | 8  | 25.00 |   |   | 200.00 | 56.65  | 11330.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                 | 55         |    |       |   |   |        |        |          |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                          | 1.65       |    |       |   |   |        |        |          |
|       | Total                                                                                                                                                                                                                                                                                                                                      | 56.65      |    |       |   |   |        |        |          |

| Sl No | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit    | No | L    | B | D | Qty   | Rate    | Amount   |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----|------|---|---|-------|---------|----------|
| 25    | Supplying and fixing Class-A GI Pipe on pole/wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)                                                                                                                                                                                                                                                                                                                                                                                                               | Mtr     | 8  | 3.00 |   |   | 24.00 | 294.58  | 7070.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 286     |    |      |   |   |       |         |          |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8.58    |    |      |   |   |       |         |          |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 294.58  |    |      |   |   |       |         |          |
| 26    | Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit./ the pit should be filled with equal proportion of salt and charocal 150 mm around the pipe to complete depth the connections from the pipe to the conduit etc., is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia bolts, nuts washers and checknuts etc., the pipe shall have 16 through holes of 122mm dia (P.NO - 552, I.NO - 7 , BWSSB SR 13-14) | No's    | 8  |      |   |   | 8.00  | 1699.50 | 13596.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1650    |    |      |   |   |       |         |          |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 49.50   |    |      |   |   |       |         |          |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1699.50 |    |      |   |   |       |         |          |
| 27    | Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I.NO - 16 (b) , BWSSB SR 13-14)                                                                                                                                                                                                                                                                                                                                                   | No's    | 8  |      |   |   | 8.00  | 271.92  | 2175.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 264     |    |      |   |   |       |         |          |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7.92    |    |      |   |   |       |         |          |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 271.92  |    |      |   |   |       |         |          |
| 28    | Supplying shunt capacitor's conforming to IS 2834, 3phase, 400/440 volts grade for power factor improvement of roating machinery capacitor in KVAR rating No's. (MR)                                                                                                                                                                                                                                                                                                                                                                                                                              | No's    | 8  |      |   |   | 8.00  | 1350.00 | 10800.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |    |      |   |   |       |         |          |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |    |      |   |   |       |         |          |
| 29    | Providing and fixing Gun Metal Gate wheel valve conforming to IS specification of approved make as per direction including all lead and lift etc., Complete. 50mm dia (P.NO - 103, I.NO - 13.79.6, PWD SR 13-14)                                                                                                                                                                                                                                                                                                                                                                                  | No's    | 8  | 3.00 |   |   | 24.00 | 1515.80 | 36379.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1430    |    |      |   |   |       |         |          |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 85.80   |    |      |   |   |       |         |          |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1515.80 |    |      |   |   |       |         |          |

| SI No | Description of item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unit   | No | L      | B    | D    | Qty     | Rate   | Amount    |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----|--------|------|------|---------|--------|-----------|
| 30    | Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches (P.NO - 521, I.NO - 2 (f), BWSSB SR 13-14)                                                                                                                                                                                                                                | No's   |    |        |      |      |         |        |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 8  |        |      |      | 8.00    | 311.58 | 2493.00   |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 302.5  |    |        |      |      |         |        |           |
|       | 3% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9.08   |    |        |      |      |         |        |           |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 311.58 |    |        |      |      |         |        |           |
| 31    | Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.4, PWD SR 13-14)                                                                                  | Cum    |    |        |      |      |         |        |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 8  | 85.00  | 0.60 | 0.75 | 306.00  |        |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 1  | 425.00 | 0.60 | 0.75 | 191.25  |        |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |    |        |      |      | 497.25  | 223.66 | 111215.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 211    |    |        |      |      |         |        |           |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12.66  |    |        |      |      |         |        |           |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 223.66 |    |        |      |      |         |        |           |
| 32    | Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm <sup>2</sup> including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete (P.NO - 102, I.NO - 13.73.1, PWD SR 13-14) | Mtr    |    |        |      |      |         |        |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 8  | 85.00  |      |      | 680.00  |        |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 1  | 425.00 |      |      | 425.00  |        |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |    |        |      |      | 1105.00 | 352.98 | 390043.00 |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 333.00 |    |        |      |      |         |        |           |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 19.98  |    |        |      |      |         |        |           |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 352.98 |    |        |      |      |         |        |           |
| 33    | Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications (P.NO - 6, I.NO - 2.11, PWD SR 13-14)                                                                                                                                                                                                                                    | Cum    |    |        |      |      |         |        |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 8  | 85.00  | 0.60 | 0.75 | 306.00  |        |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        | 1  | 425.00 | 0.60 | 0.75 | 191.25  |        |           |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |    |        |      |      | 497.25  | 59.36  | 29517.00  |
|       | Basic Rate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 56.00  |    |        |      |      |         |        |           |
|       | 6% area weightage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3.36   |    |        |      |      |         |        |           |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 59.36  |    |        |      |      |         |        |           |

| SI No | Description of item                  | Unit | No | L | B | D | Qty  | Rate     | Amount     |
|-------|--------------------------------------|------|----|---|---|---|------|----------|------------|
| 34    | KPTCL Deposit charges                | No's | 8  |   |   |   | 8.00 | 14500.00 | 116000.00  |
| 35    | Miscellaneous and Unforeseen Charges | L/S  |    |   |   |   |      |          | 924.00     |
|       |                                      |      |    |   |   |   |      |          | 5000000.00 |

(Rupees Fifty Lakhs Only)

**CERTIFICATE :**

- 1 The work spot has been inspected and the work is found necessary.
- 2 This estimate is prepared as per PRED S.R.2012-13 of Rural Engineering Department
- 4 The provisions were made in this estimate are necessary and adequate.
- 5 This works come under B.B.M.P. limits.

Assistant Engineer

ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಮುಖ್ಯಮಂತ್ರಿ ಕಾರ್ಯಾಲಯ, ಬೆಂಗಳೂರು-92

Executive Engineer  
Bruhat Bangalore Mahanagara Palike  
Byatarayanapura Division  
Bangalore - 92

Assistant Executive Engineer  
Bruhat Bangalore Mahanagara Palike  
Byatarayanapura Sub Division  
Bangalore-24

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00L

Rupees Fifty Lakhs only

Under 110 village Grant

Registered as EE ( ) No. \_\_\_\_\_

Subject to conditions contained in

enclosed memo EE ( ) No. \_\_\_\_\_

Dt. \_\_\_\_\_ Estimate A/Sanctioned.

Add Com (4) AP/626/13-14

dated 23.12.13 Rs. 50.00 Lakh

Joint Commissioner  
(B.B.M.P. Zone)

B.M.P. Bengaluru-92

ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಮುಖ್ಯಮಂತ್ರಿ ಕಾರ್ಯಾಲಯ, ಬೆಂಗಳೂರು-92

Technical Sanction for Rs. 50-00 Lakh

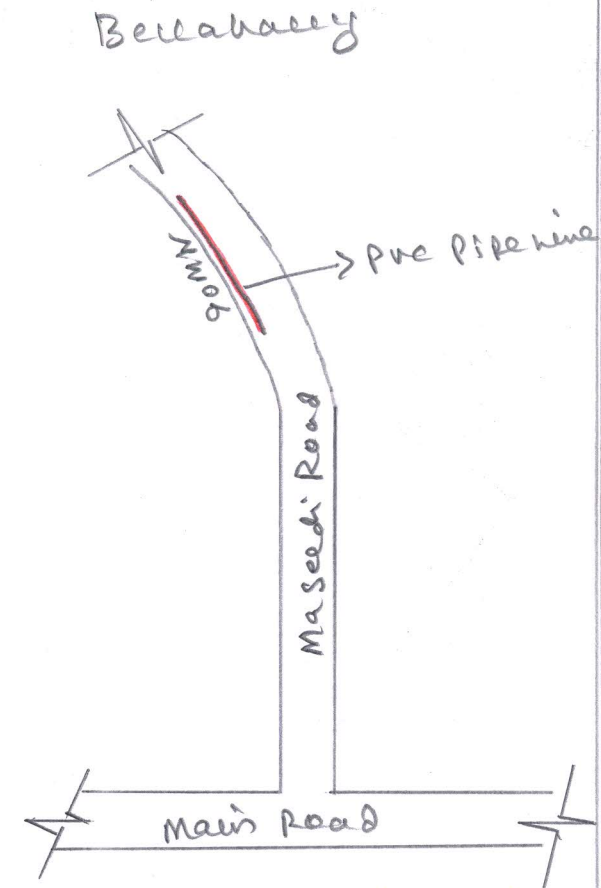
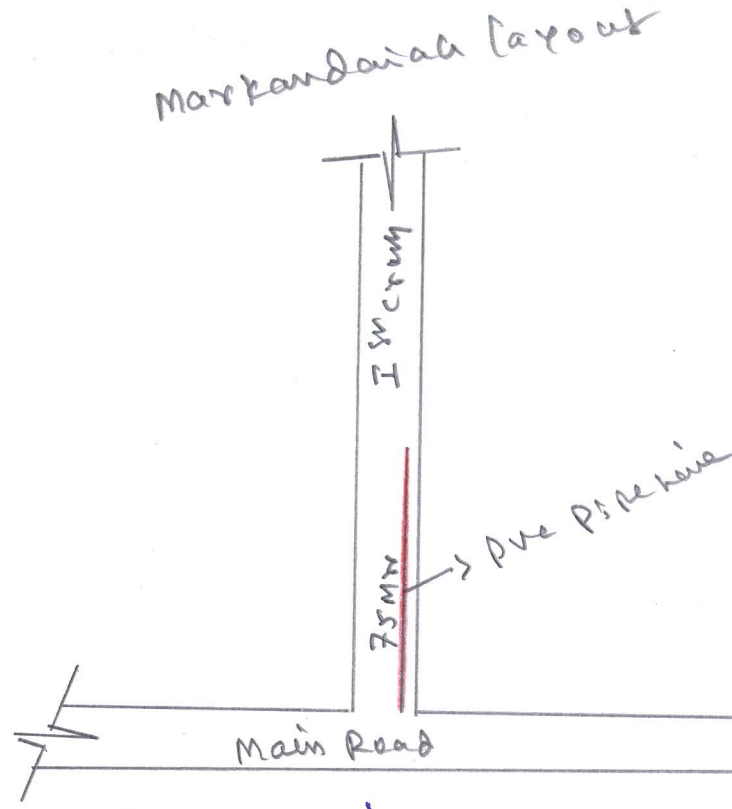
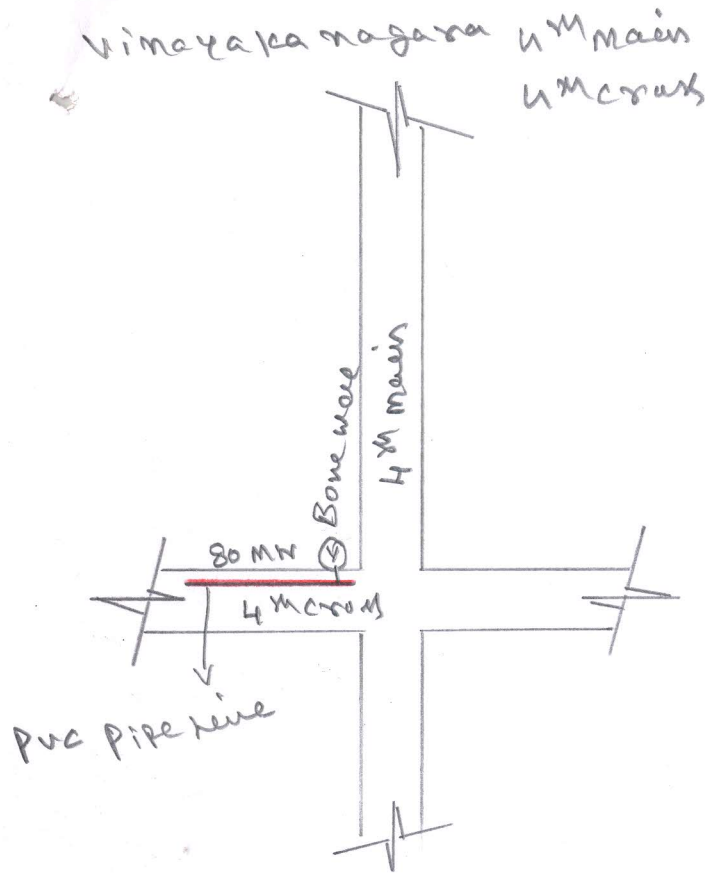
Fifty Lakhs only

68/13-14

68/13-14 23.12.13

Superintendent Engineer

CE (BTP.Div.)



Drilling of Borewells and providing pump and motor At chokkanahally  
Polanahally Kattasenahally Bellahally Thirumenahally village limits  
in Ward no. 05

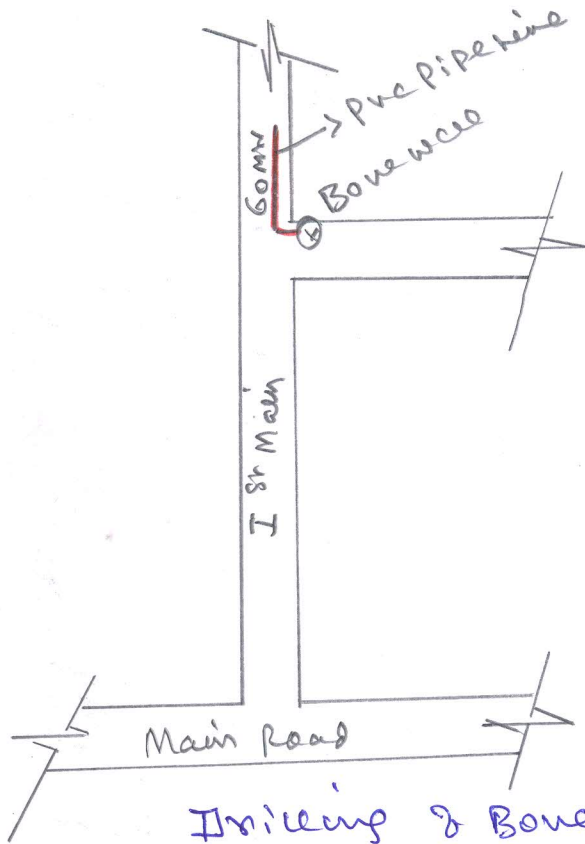
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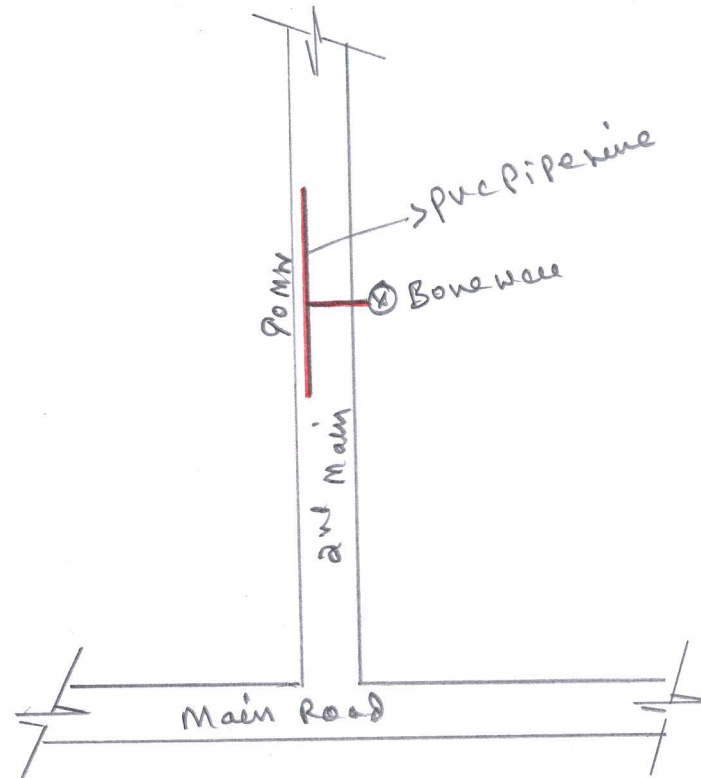
ವಿ.ಬಿ.ಎಂ.ಸಿ. ಬೃಹತ್ಯಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer  
dyatarayanapura Sub Division  
B.B.M.P. Bangalore

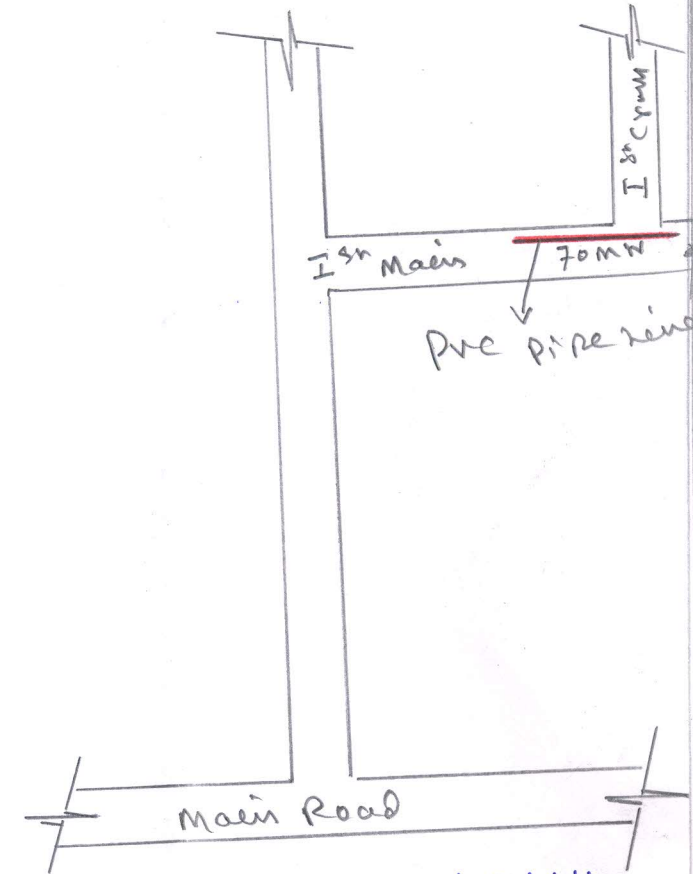
Iwar Kanagara 1<sup>st</sup> cross



Iwar Kanagara 2<sup>nd</sup> cross



Vinayakanaagara 1<sup>st</sup> main 1<sup>st</sup> cross



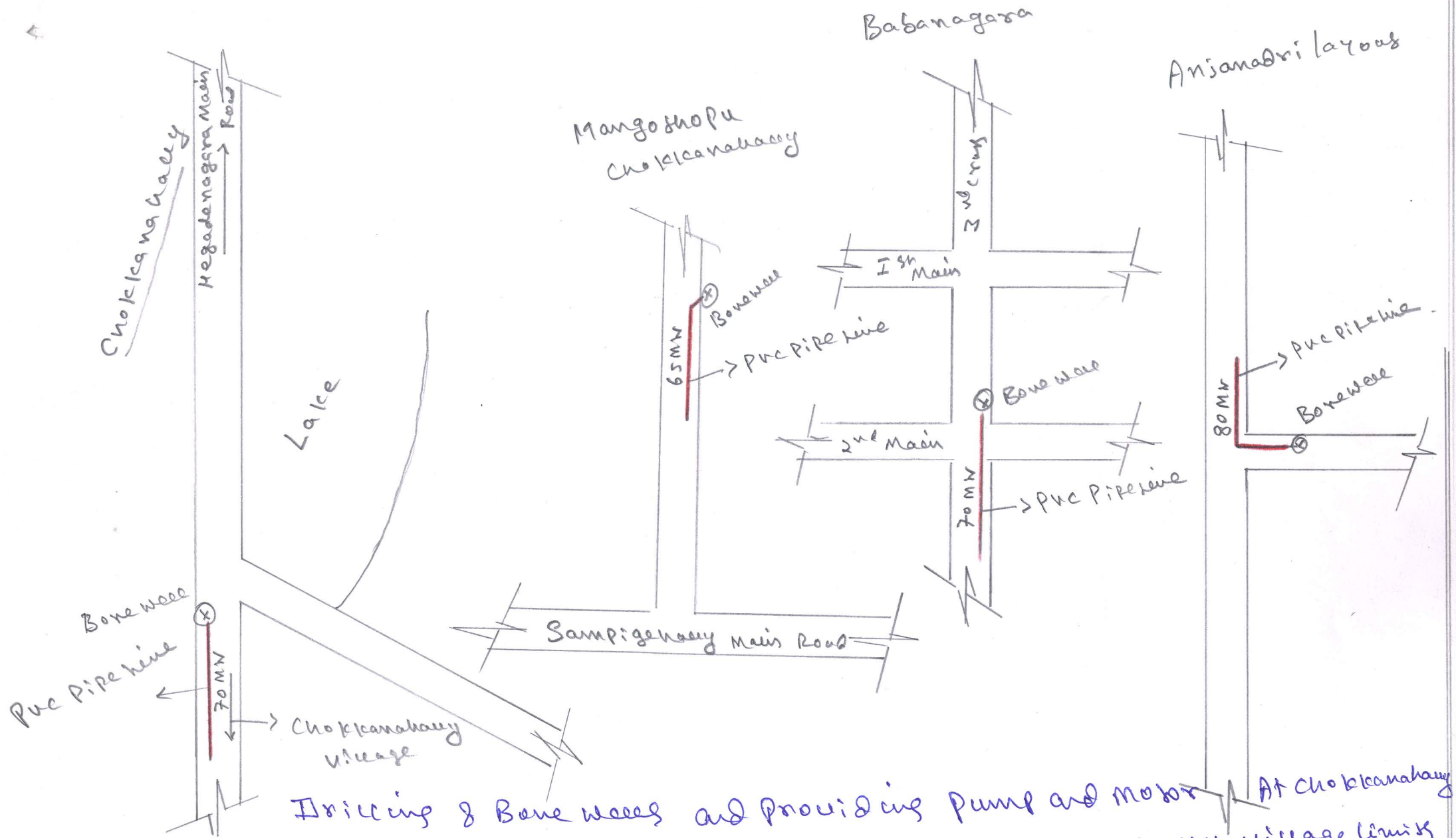
Drilling 2 Bone Wells and providing pump and motor At Chokkanahally  
Palanahally Kattisenaahally Bellahally Thirumenahally village limits  
in Ward no. 05

*Cy*  
AE-05

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಿಯನಪುರ ಉಪ ವಿಭಾಗ

*[Signature]*  
Assistant Executive Engineer  
Byatarayanapura Sub Division  
B.B.M.P. Bangalore



Drilling 8 Bore wells and providing pump and motor  
 Palanahally Kathirahally Bellahally Thirumenahally village limits  
 in Ward no. 05

AE-05  
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Assistant Executive Engineer  
 Byatarayanapura Sub Division  
 R.B.M.P. Bangalore